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1 [Query evaluation techniques for large databases](#)

Goetz Graefe

 June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: pdf(9.37 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

2 [Types and persistence in database programming languages](#)

Malcolm P. Atkinson, O. Peter Buneman

 June 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 2

Full text available: pdf(7.91 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Traditionally, the interface between a programming language and a database has either been through a set of relatively low-level subroutine calls, or it has required some form of embedding of one language in another. Recently, the necessity of integrating database and programming language techniques has received some long-overdue recognition. In response, a number of attempts have been made to construct programming languages with completely integrated database management systems. These lang ...

3 [Computing curricula 2001](#)

 September 2001 **Journal on Educational Resources in Computing (JERIC)**

 Full text available: pdf(613.63 KB)
 html(2.78 KB)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10/034,132

4 Physical design equivalencies in database conversion

Mark L. Gillenson

August 1990 **Communications of the ACM**, Volume 33 Issue 8

Full text available:  [pdf\(1.45 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


As relational technology becomes increasingly accepted in commercial data processing, conversion of some of the huge number of existing navigational databases to relational databases is inevitable. It is thus important to understand how to recognize physical design modifications and enhancements in the navigational databases and how to convert them to equivalent relational terms as applicable.

Keywords: database performance

5 Fast algorithms for universal quantification in large databases

Goetz Graefe, Richard L. Cole

June 1995 **ACM Transactions on Database Systems (TODS)**, Volume 20 Issue 2

Full text available:  [pdf\(3.51 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Universal quantification is not supported directly in most database systems despite the fact that it adds significant power to a system's query processing and inference capabilities, in particular for the analysis of many-to-many relationships and of set-valued attributes. One of the main reasons for this omission has been that universal quantification algorithms and their performance have not been explored for large databases. In this article, we describe and compare three known algorithms ...

6 Model-driven development of Web applications: the AutoWeb system

Piero Fraternali, Paolo Paolini

October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Full text available:  [pdf\(6.94 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

7 How good is that data in the warehouse?

John M. Artz

June 1997 **ACM SIGMIS Database**, Volume 28 Issue 3

Full text available:  [pdf\(1.07 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

A data warehouse is an analytical database used for decision support. Data are copied from production databases, cleaned up, and possibly renormalized (i.e., denormalized for performance or normalized to create correct record structures). If the resulting records are normalized incorrectly or if the users do not understand how the records have been denormalized, then a phenomenon called semantic disintegrity may occur. Semantic

disintegrity occurs when a user submits a query and receives an answ ...

Keywords: data quality, data warehouse, database design, experimentation, human factors, normalization

8 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse

December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Full text available:  pdf(5.49 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

9 EAS-E: an integrated approach to application development

A. Malhotra, H. M. Markowitz, D. P. Pazel

December 1983 **ACM Transactions on Database Systems (TODS)**, Volume 8 Issue 4

Full text available:  pdf(2.26 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


EAS-E (pronounced EASY) is an experimental programming language integrated with a database management system now running on VM/370 at the IBM Thomas J. Watson Research Center. The EAS-E programming language is built around the entity, attribute, and set (EAS) view of application development. It provides a means for translating operations on EAS structures directly into executable code. EAS-E commands have an English-like syntax, and thus EAS-E programs are ...

Keywords: entity relationship model

10 Special issue on persistent object systems: Orthogonally persistent object systems

Malcolm Atkinson, Ronald Morrison

July 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4 Issue 3

Full text available:  pdf(5.02 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Persistent Application Systems (PASs) are of increasing social and economic importance. They have the potential to be long-lived, concurrently accessed, and consist of large bodies of data and programs. Typical examples of PASs are CAD/CAM systems, office automation, CASE tools, software engineering environments, and patient-care support systems in hospitals. Orthogonally persistent object systems are intended to provide improved support for the design, construction, maintenance, and operation o ...

Keywords: database programming languages, orthogonal persistence, persistent application systems, persistent programming languages

11 Database and digital library technologies: Elicitation and conversion of hidden objects and restrictions in a database schema

Laura C. Rivero, Jorge H. Doorn, Viviana E. Ferraggine

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Full text available:  pdf(627.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mapping a database schema from one model into another, with a higher semantic capacity, is a current research subject with application in several development fields, such as schema integration and translation, migration from legacy systems and reengineering of poor quality or no-longer accurate data models. Inclusion dependencies are one of the most important concepts in relational databases and they are the key to perform some reengineering of database schemas. Referential integrity restriction ...

Keywords: database conceptual schema reengineering, denormalization, pure inclusion dependencies

12 NFQL: the natural forms query language

David W. Embley

June 1989 **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 2

Full text available:  pdf(3.56 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A means by which ordinary forms can be exploited to provide a basis for nonprocedural specification of information processing is discussed. The Natural Forms Query Language (NFQL) is defined. In NFQL data retrieval requests and computation specifications are formulated by sketching ordinary forms to show what data are desired and update operations are specified by altering data on filled-in forms. The meaning of a form depends on a store of knowledge that includes extended abstract data typ ...

13 Distributed environment: Supporting database access in the Hermes programming language

P. Å. Larsont, Qiang Zhut, Frank Pellow

October 1991 **Proceedings of the 1991 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  pdf(885.10 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The work reported in this paper is part of a project aimed at designing and prototyping an application development environment that allows easy development of platform-independent distributed applications. The main goals of the database subproject are to investigate methods for (1) providing (SQL) database access and (2) supporting transaction management within a distributed programming environment based on the paradigm of communicating sequential processes. This paper looks at how SQL database ...

Keywords: Hermes, SQL, database access, distributed applications

14 A storage system for complex objects

U. Deppisch, H.-B. Paul, H.-J. Schek

September 1986 **Proceedings on the 1986 international workshop on Object-oriented database systems**

Full text available:  pdf(1.17 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Complex objects are required in many new applications of databases. A common characteristic feature is that objects use other (sub-) objects for their description. Consequently retrieval or extraction of complex objects may include some or all of their subobjects which - in turn - may have subobjects to be extracted too. Accordingly a storage system is described which was designed and implemented with the objective to provide this set orientation: Relations with relation-valued attr ...

15 MSIS 2000: model curriculum and guidelines for graduate degree programs in information

John Gorgone, Paul Gray

February 2000 **Communications of the AIS**

Full text available:  pdf(265.60 KB) Additional Information: [full citation](#), [references](#)



16 Task force report and recommendations

January 2000 **ACM SIGMIS Database**, Volume 31 Issue 1

Full text available:  pdf(4.42 MB) Additional Information: [full citation](#), [index terms](#)



17 Schema analysis for database restructuring

Shamkant B. Navathe

June 1980 **ACM Transactions on Database Systems (TODS)**, Volume 5 Issue 2

Full text available:  pdf(1.83 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The problem of generalized restructuring of databases has been addressed with two limitations: first, it is assumed that the restructuring user is able to describe the source and target databases in terms of the implicit data model of a particular methodology; second, the restructuring user is faced with the task of judging the scope and applicability of the defined types of restructuring to his database implementation and then of actually specifying his restructuring needs by translating t ...

Keywords: data model, data relationships, data semantics, data structure, database, database design, database management systems, database restructuring, graphical representation of data, schema, stored data



18 K: a high-level knowledge base programming language for advanced database applications

Yuh-Ming Shyy, Stanley Y. W. Su

April 1991 **ACM SIGMOD Record , Proceedings of the 1991 ACM SIGMOD international conference on Management of data**, Volume 20 Issue 2

Full text available:  pdf(1.17 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



19 Matching records in a national medical patient index

Glenn B. Bell, Anil Sethi

September 2001 **Communications of the ACM**, Volume 44 Issue 9

Full text available:  pdf(146.20 KB)  html(29.64 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



20 Using scientific data to teach a database systems course

Paul J. Wagner, Elizabeth Shoop, John V. Carlis

January 2003 **ACM SIGCSE Bulletin , Proceedings of the 34th SIGCSE technical symposium on Computer science education**, Volume 35 Issue 1

Full text available:  pdf(155.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Database systems instructors face an ongoing challenge to develop meaningful assignments



for their courses. We have found that instructors can successfully use large scientific datasets in teaching a database systems course to better prepare students for real-world database systems work.

Keywords: database, scientific, systems, teaching

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Results Key:**JNL** = Journal or Magazine **CNF** = Conference **STD** = Standard**1 Hardware implementations of denormalized numbers***Schwarz, E.M.; Schmookler, M.; Trong, S.D.;*

Computer Arithmetic, 2003. Proceedings. 16th IEEE Symposium on , 15-18 Ju 2003

Pages:70 - 78

[\[Abstract\]](#) [\[PDF Full-Text \(951 KB\)\]](#) **IEEE CNF**
2 Applying features of IEEE 754 to sign/logarithm arithmetic*Arnold, M.G.; Bailey, T.A.; Cowles, J.R.; Winkel, M.D.;*

Computers, IEEE Transactions on , Volume: 41 , Issue: 8 , Aug. 1992

Pages:1040 - 1050

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3 Denormalization effects on performance of RDBMS*Sanders, G.L.; Seungkyoon Shin;*

System Sciences, 2001. Proceedings of the 34th Annual Hawaii International Conference on , 3-6 Jan. 2001

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4 A new approximation theory for Z-domain elliptic transfer functions*Nowrouzian, B.;*

Circuits and Systems, 1993., ISCAS '93, 1993 IEEE International Symposium on , 3-6 May 1993

Pages:2315 - 2318 vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(260 KB\)\]](#) **IEEE CNF**

10/036,132

5 Implementation design for databases: the 'forgotten' step*Martyn, T.;*

IT Professional , Volume: 2 , Issue: 2 , March-April 2000

Pages:42 - 49

[\[Abstract\]](#) [\[PDF Full-Text \(268 KB\)\]](#) IEEE JNL

6 Multistep gradual rounding*Lee, C.;*

Computers, IEEE Transactions on , Volume: 38 , Issue: 4 , April 1989

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7 Prototype reference transfer function parameters in the discrete-time frequency transformations*Nowrouzian, B.; Constantinides, A.G.;*

Circuits and Systems, 1990., Proceedings of the 33rd Midwest Symposium on 14 Aug. 1990

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8 Towards the reverse engineering of renormalized relational databases*Petit, J.-M.; Toumani, F.; Boulicaut, J.-F.; Kouloumdjian, J.;*

Data Engineering, 1996. Proceedings of the Twelfth International Conference on , 26 Feb.-1 March 1996

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9 High performance floating-point unit with 116 bit wide divider*Gerwig, G.; Wetter, H.; Schwarz, E.M.; Haess, J.;*

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[\[Abstract\]](#) [\[PDF Full-Text \(1406 KB\)\]](#) IEEE CNF

10 A segment-based C_0 adaptation scheme for PMC-based noisy Mandarin speech recognition*Wei-Tyng Hong; Sin-Hong Chen;*

Acoustics, Speech, and Signal Processing, 1999. ICASSP '99. Proceedings., 19 IEEE International Conference on , Volume: 1 , 15-19 March 1999

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[\[Abstract\]](#) [\[PDF Full-Text \(320 KB\)\]](#) IEEE CNF

11 How to half the latency of IEEE compliant floating-point multiplication*Seidel, P.-M.;*

Euromicro Conference, 1998. Proceedings. 24th , Volume: 1 , 25-27 Aug. 199

Pages:329 - 332 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(384 KB\)\]](#) IEEE CNF

12 Closed-form solutions for discrete-time elliptic transfer functions

Nowrouzian, B.; Bruton, L.T.;

Circuits and Systems, 1992., Proceedings of the 35th Midwest Symposium on
12 Aug. 1992

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13 Transforming from flat algebra to nested algebra

Deshpande, V.; Larson, P.;

System Sciences, 1990., Proceedings of the Twenty-Third Annual Hawaii
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14 Spectral analysis of 49 years of rainfall rate and relation to fade dynamics

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Communications, IEEE Transactions on , Volume: 38 , Issue: 9 , Sept. 1990

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15 Low active-sensitivity allpole active-RC filters using impedance tap

Juriscic, D.; Moschytz, G.S.; Mijat, N.;

Circuits and Systems, 2004. ISCAS '04. Proceedings of the 2004 International
Symposium on , Volume: 1 , 23-26 May 2004

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